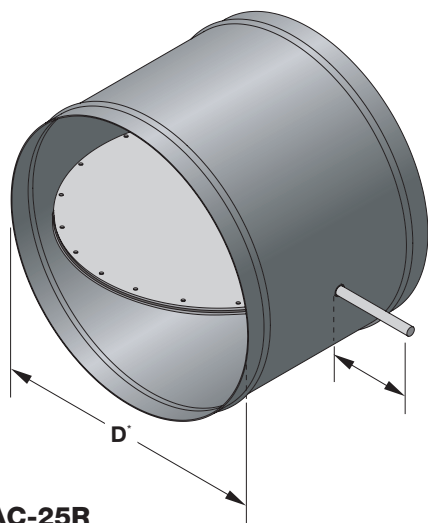
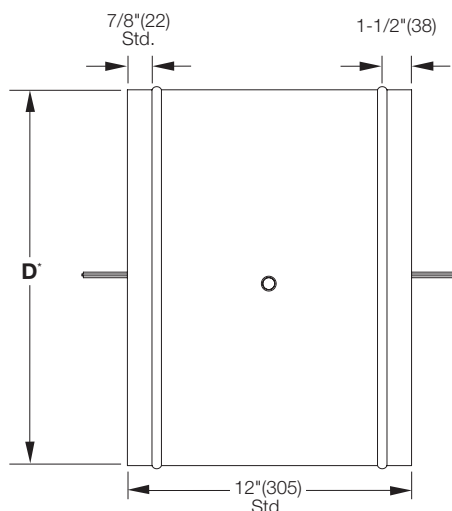


AC-25R low leakage control dampers employ a sturdy round frame and a single round blade for automatic air control and manual balancing in medium to high pressure and velocity applications.



AC-25R
(standard)
(single blade type)



Side View

*Damper dimensions furnished approximately 1/8" (3) undersize

Standard Construction

Frame: 12" x 20 ga. (305 x 1.0) galvanized steel

Blades: 14 gauge (2.0) equivalent galvanized steel — round

Axes: 1/2" (13) diameter plated steel

Bearings: Synthetic

Seals: Polyethylene blade edge seals

Control Shaft: 1/2" x 3" (13 x 76) round drive axle

Minimum Size: 6" Ø (152 Ø)

Maximum Size: 24" Ø (610 Ø)

Options

■ Factory installed external mount actuator:

- Manual locking quadrant (supplied loose, sleeve not required)
- 24 VAC ■ 120 VAC ■ 230 VAC
- Pneumatic ■ Modulating

■ Actuator Mounting Bracket

■ Actuator/Quadrant standoff bracket - accommodates up to 1" (25) thick insulated duct

■ Stainless steel oilite bearings

■ Type-304 stainless steel construction

Ratings

Damper Width	Maximum System Pressure	Maximum System Velocity
6" (152)	10.0 in. wg. (2.5 kPa)	4,000 fpm (20.4 m/s)
12" (305)	8.0 in. wg. (2.0 kPa)	4,000 fpm (20.4 m/s)
18" (457)	6.0 in. wg. (1.5 kPa)	3,500 fpm (17.8 m/s)
24" (610)	4.0 in. wg. (1.0 kPa)	3,000 fpm (15.3 m/s)

Maximum

Leakage: 5.5 cfm/ft² @ 10 in. wg. (0.028m³/s/ m² @ 2.5 kPa)
 5.0 cfm/ft² @ 8 in. wg. (0.026m³/s/ m² @ 2.0 kPa)
 3.3 cfm/ft² @ 4 in. wg. (0.017m³/s/ m² @ 1.0 kPa)
 1.5 cfm/ft² @ 1 in. wg. (0.008m³/s/ m² @ 0.25 kPa)

Temperature: -25°F to 180°F (-32°C to 83°C)

NOTE: Dimensions in parentheses () are millimeters.
 Information is subject to change without notice or obligation.

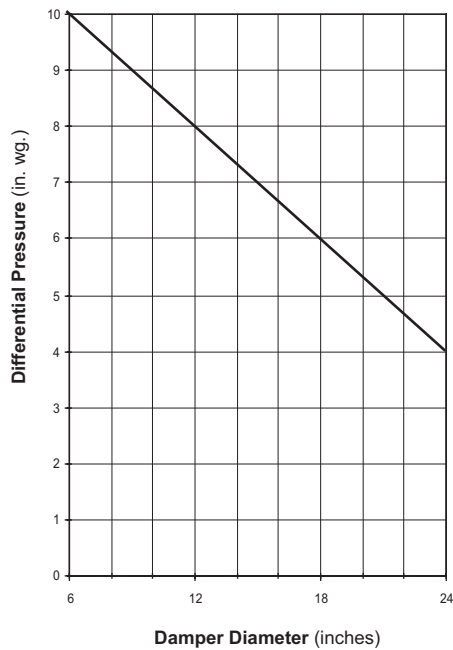
csairproducts.com

Airflow Performance Data

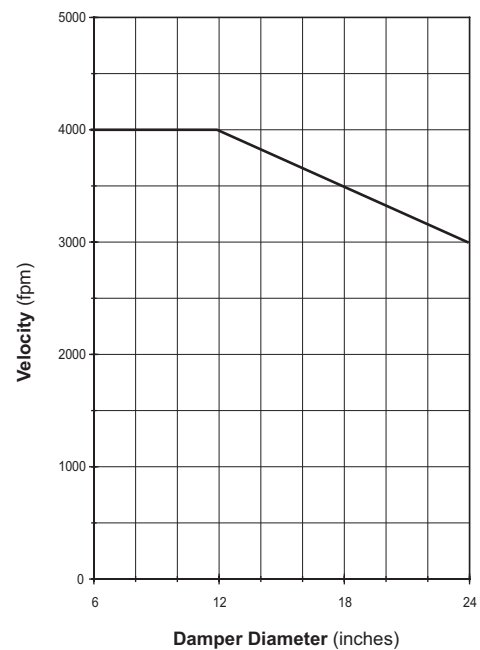
AC-25R

Low Leakage Control Damper
Single Round Blade

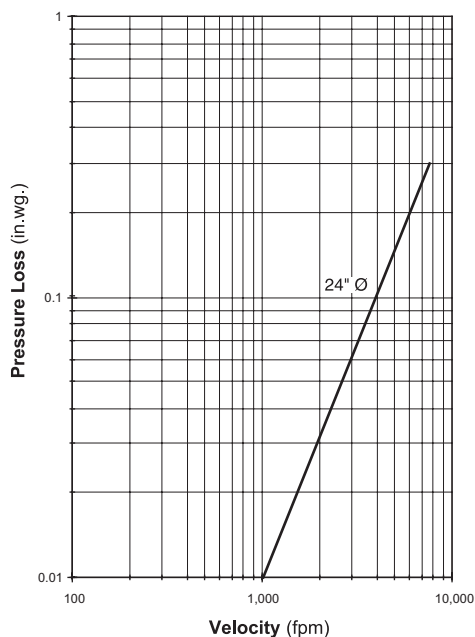
Pressure Limitations



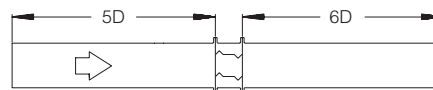
Velocity Limitations



Pressure Loss vs. Velocity



Pressure drop testing was performed in accordance with AMCA Standard 500-D. All data has been corrected to represent air density of 0.075 lb./ft. Actual pressure drop in any ducted HVAC system is a combination of many elements. This information, along with analysis of other system influences, should be used to estimate actual pressure losses for a damper installed in a given HVAC system.



Ducted Inlet and Outlet

AMCA Figure 5.3 Illustrates a fully ducted damper. This configuration represents the lowest pressure drop because entrance and exit losses are minimized by straight duct runs upstream and downstream of the damper.